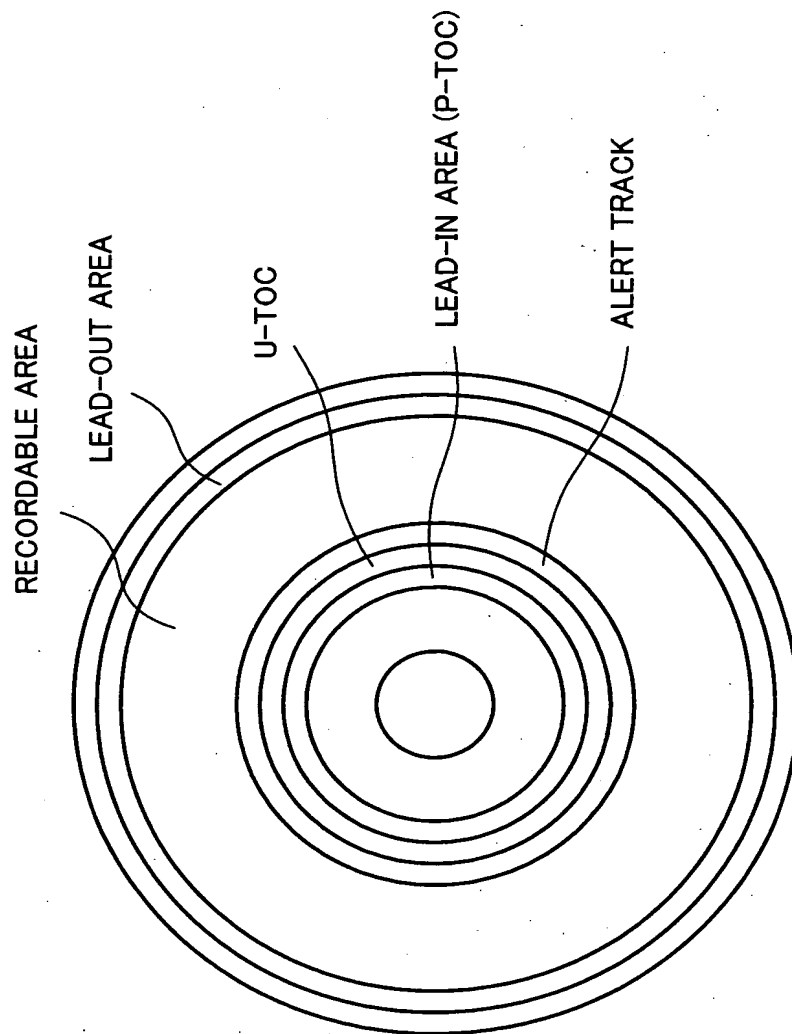
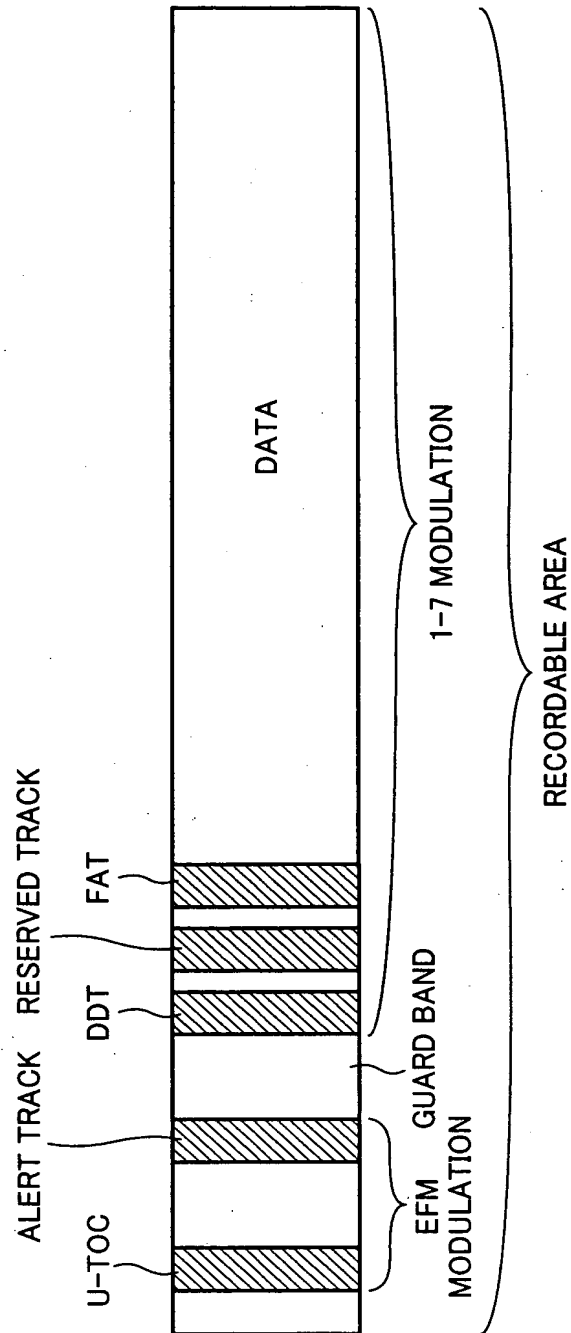


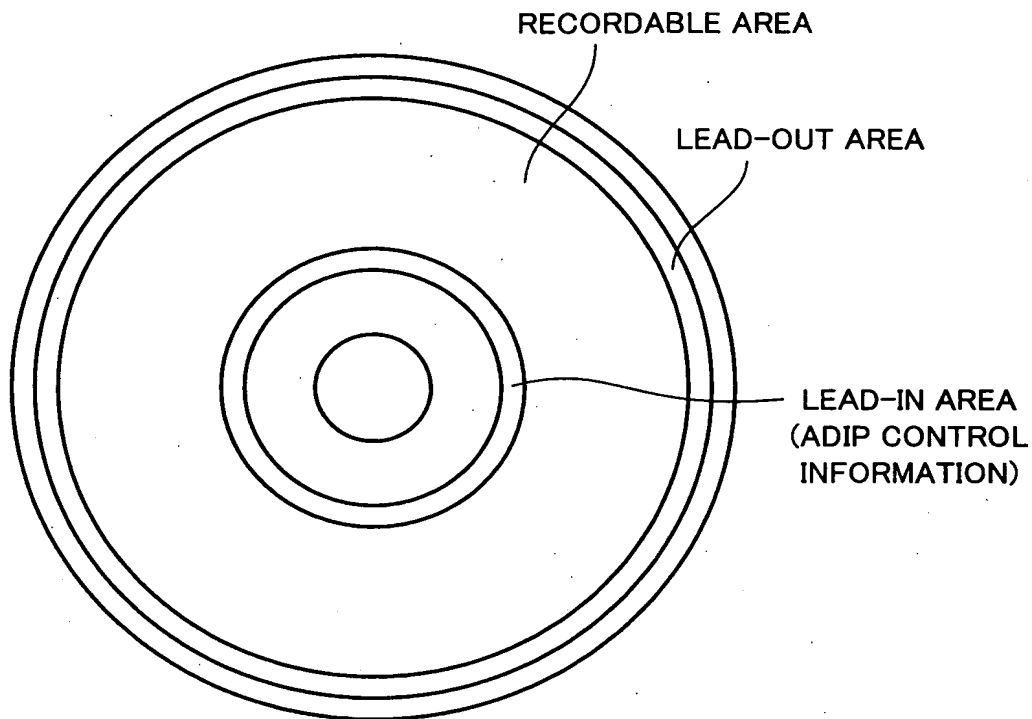
**Fig. 1**



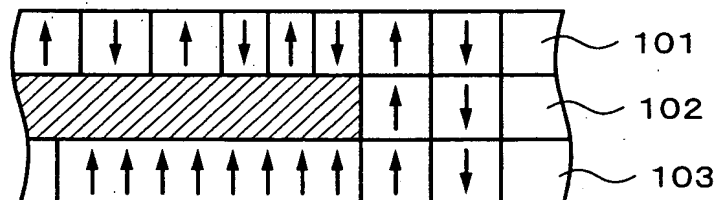
**Fig. 2**



**Fig. 3A**

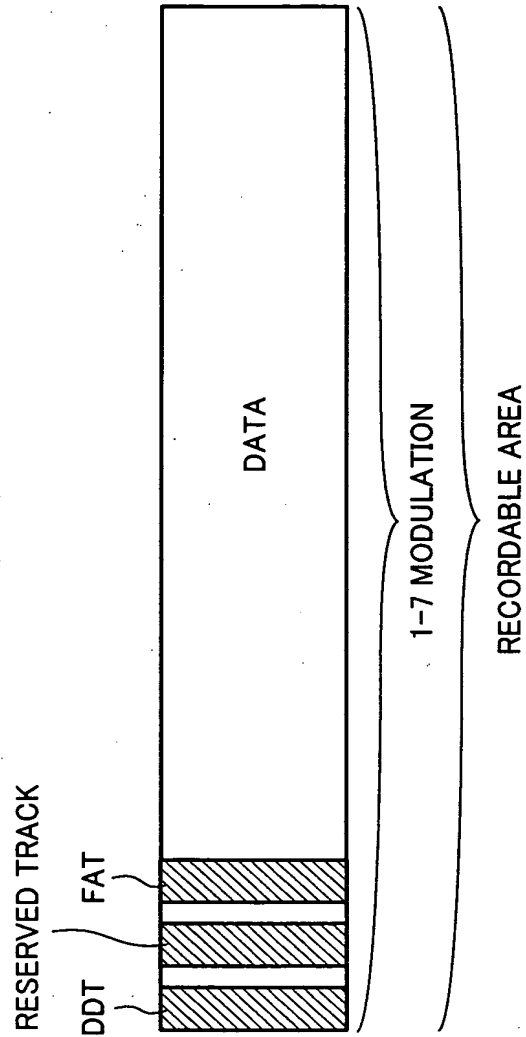


**Fig. 3B**

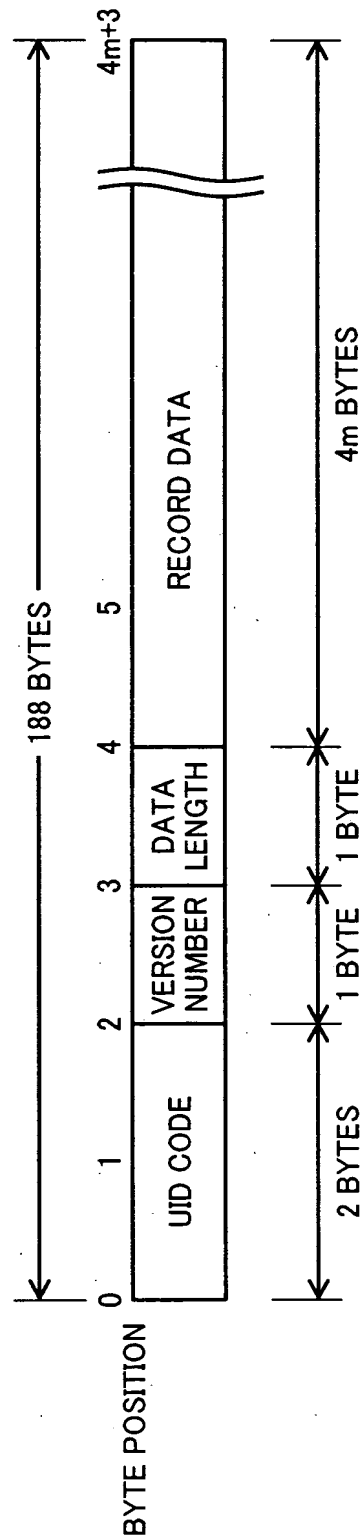


← MOVING DIRECTION OF  
MAGNETIC WALL

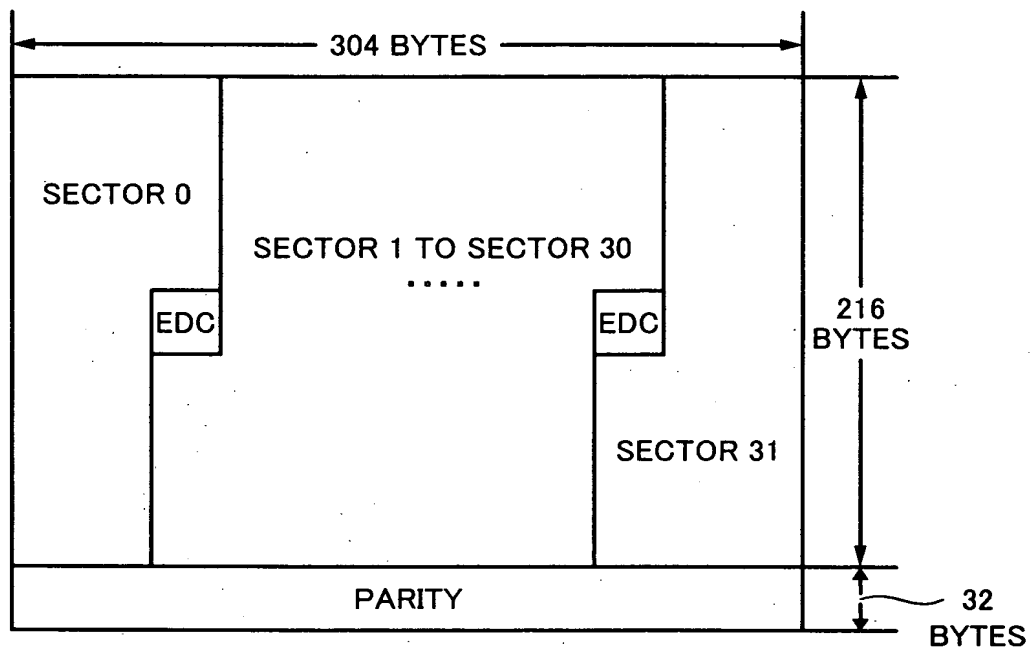
**Fig. 4**



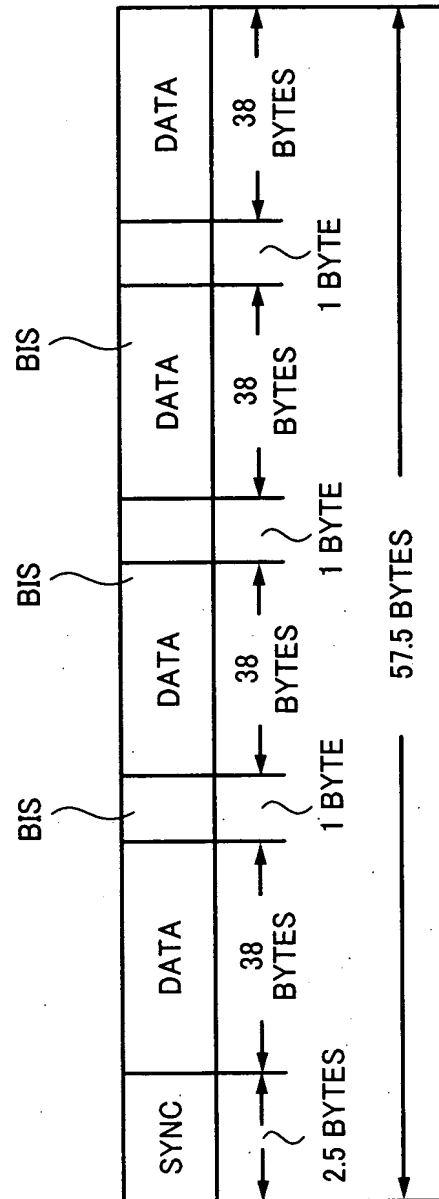
**Fig. 5**



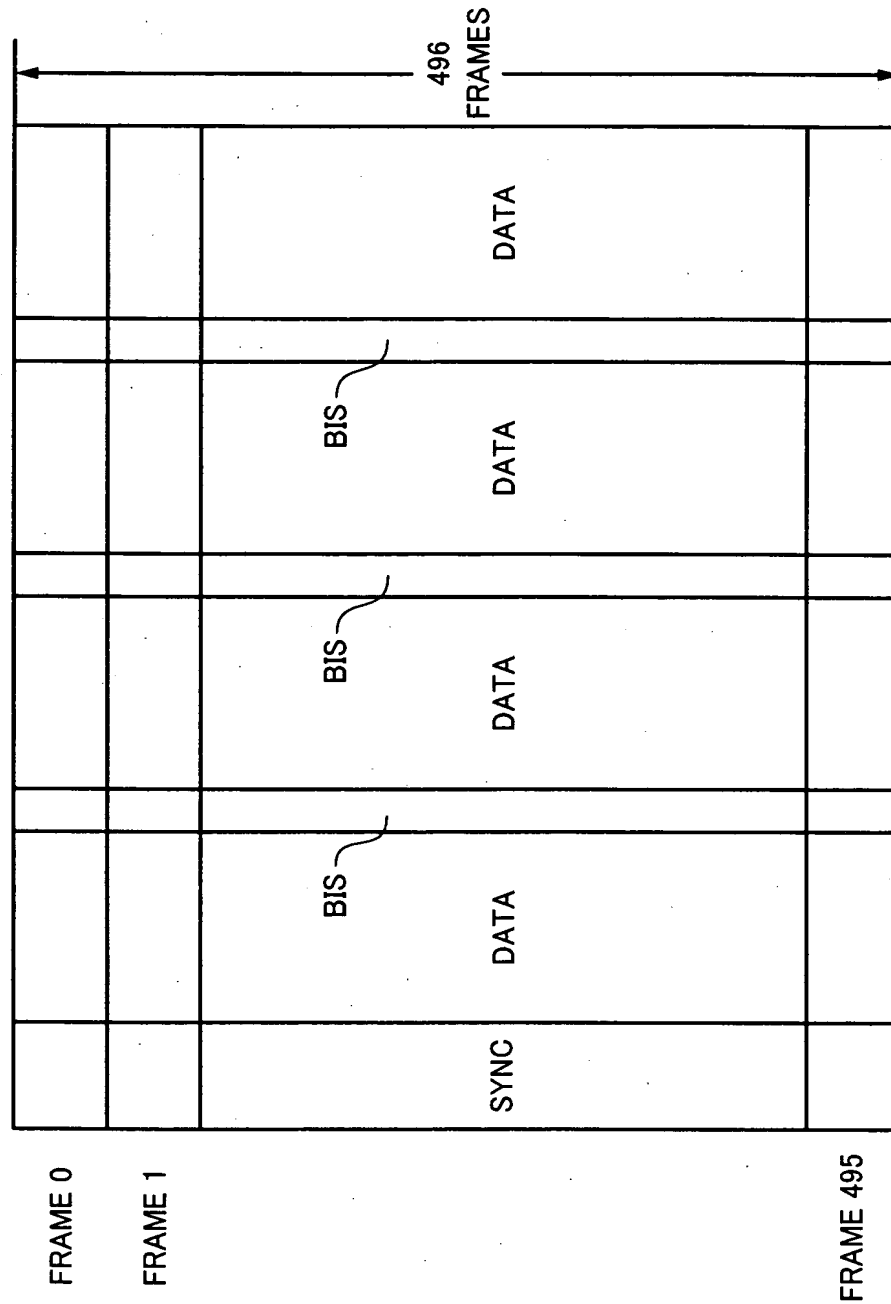
**Fig. 6**



**Fig. 7**

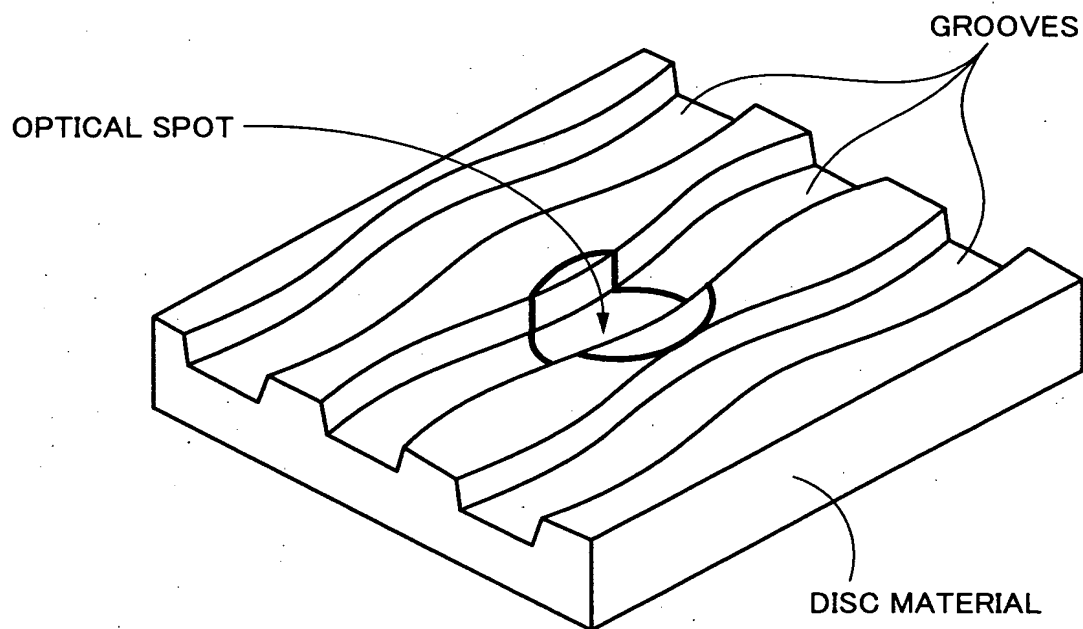


**Fig. 8**

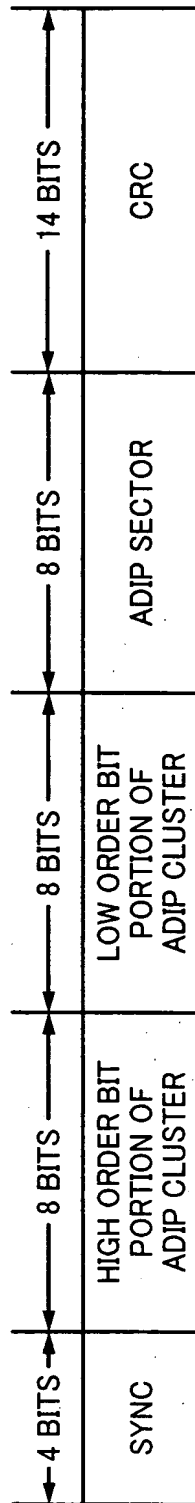




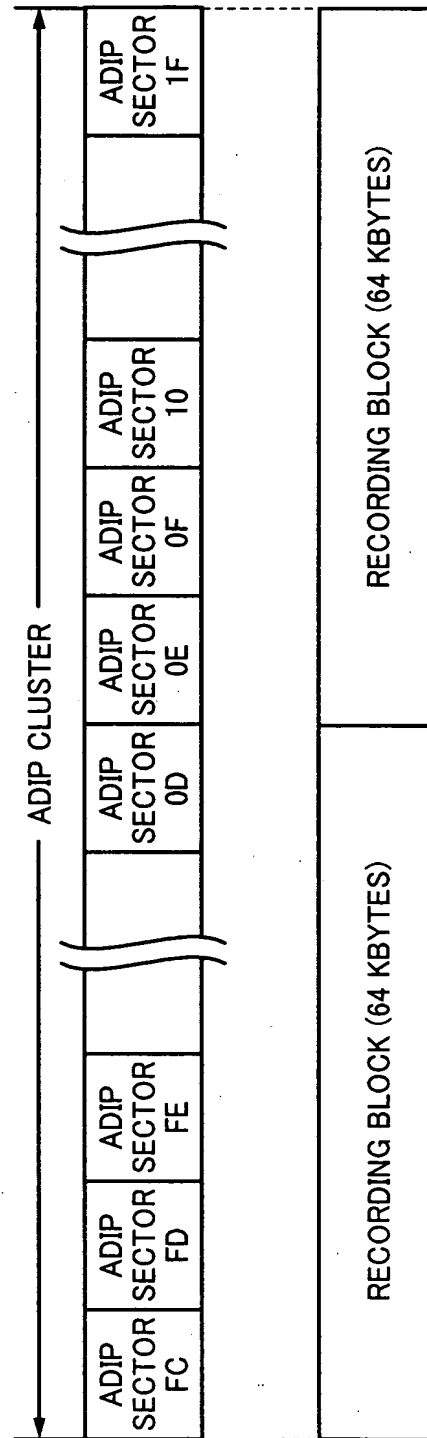
**Fig. 9**



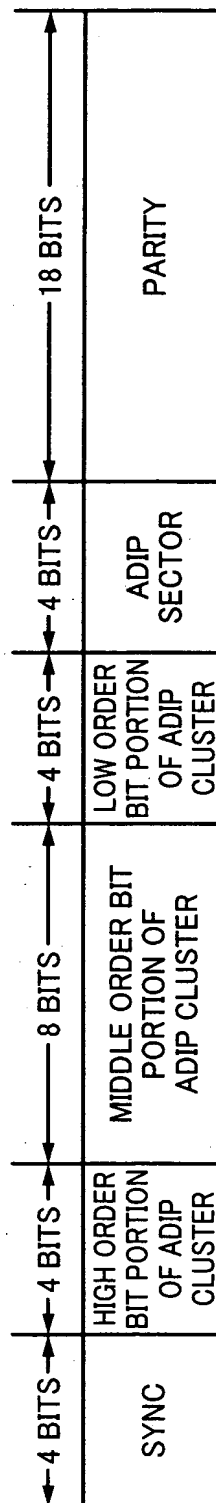
**Fig. 10**



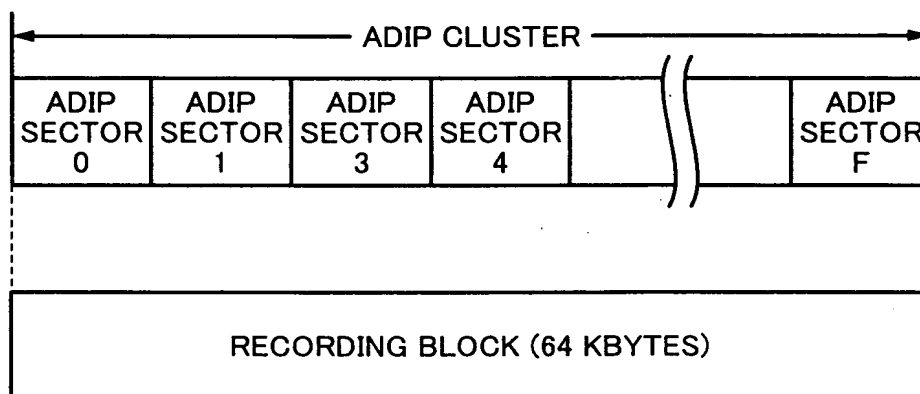
**Fig. 11**



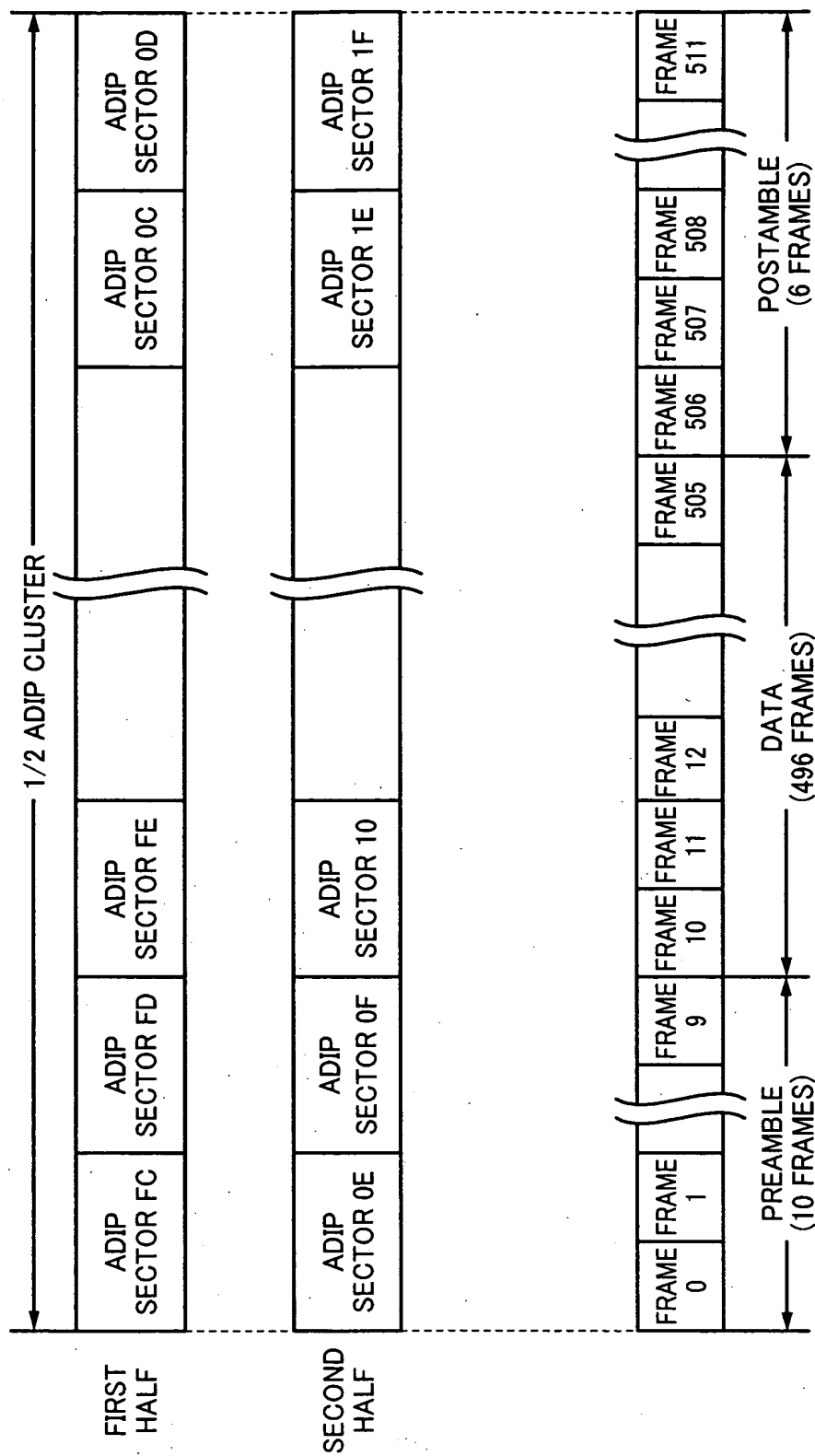
**Fig. 12**



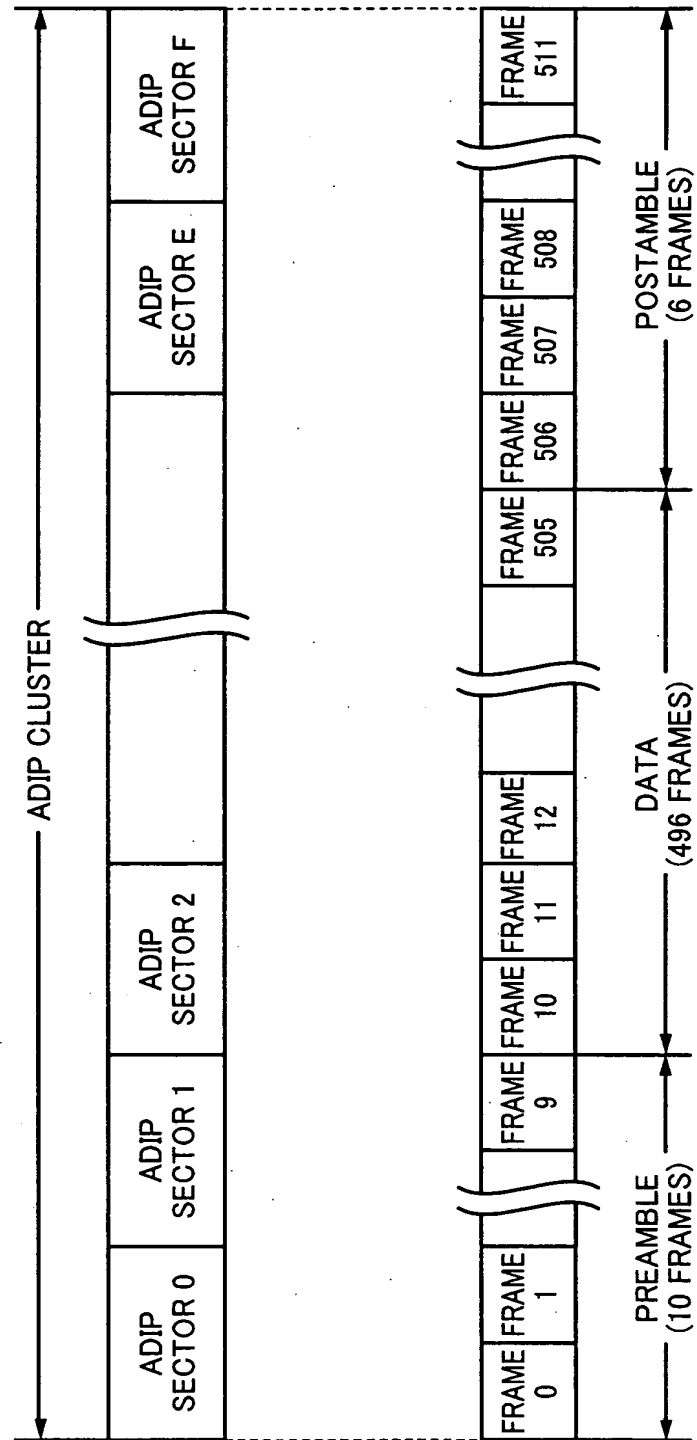
**Fig. 13**



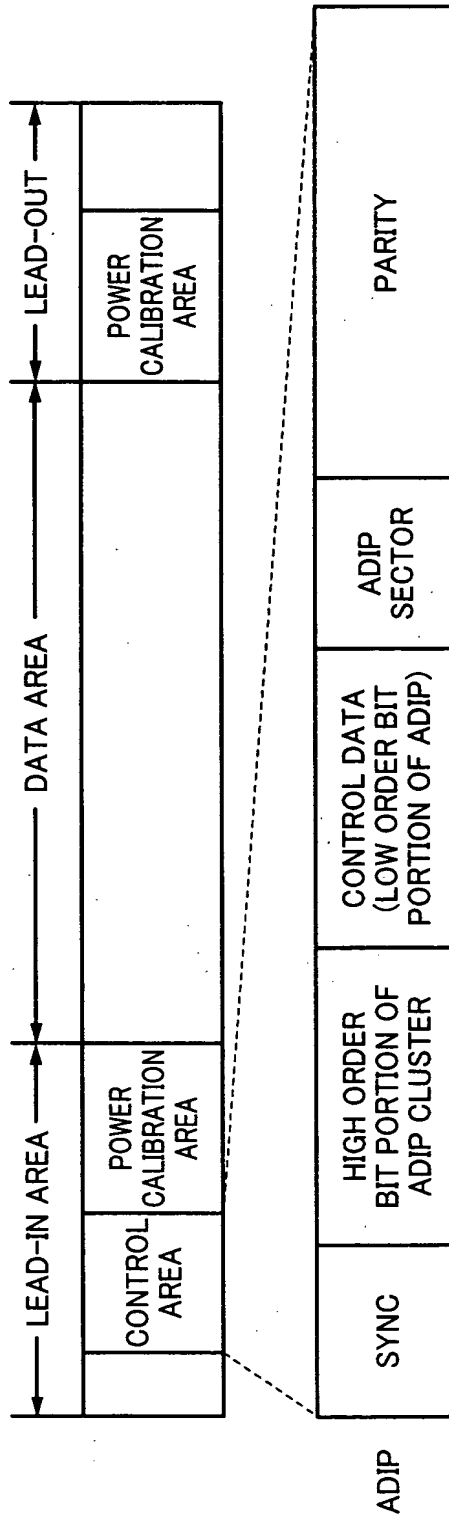
**Fig. 14**



**Fig. 15**



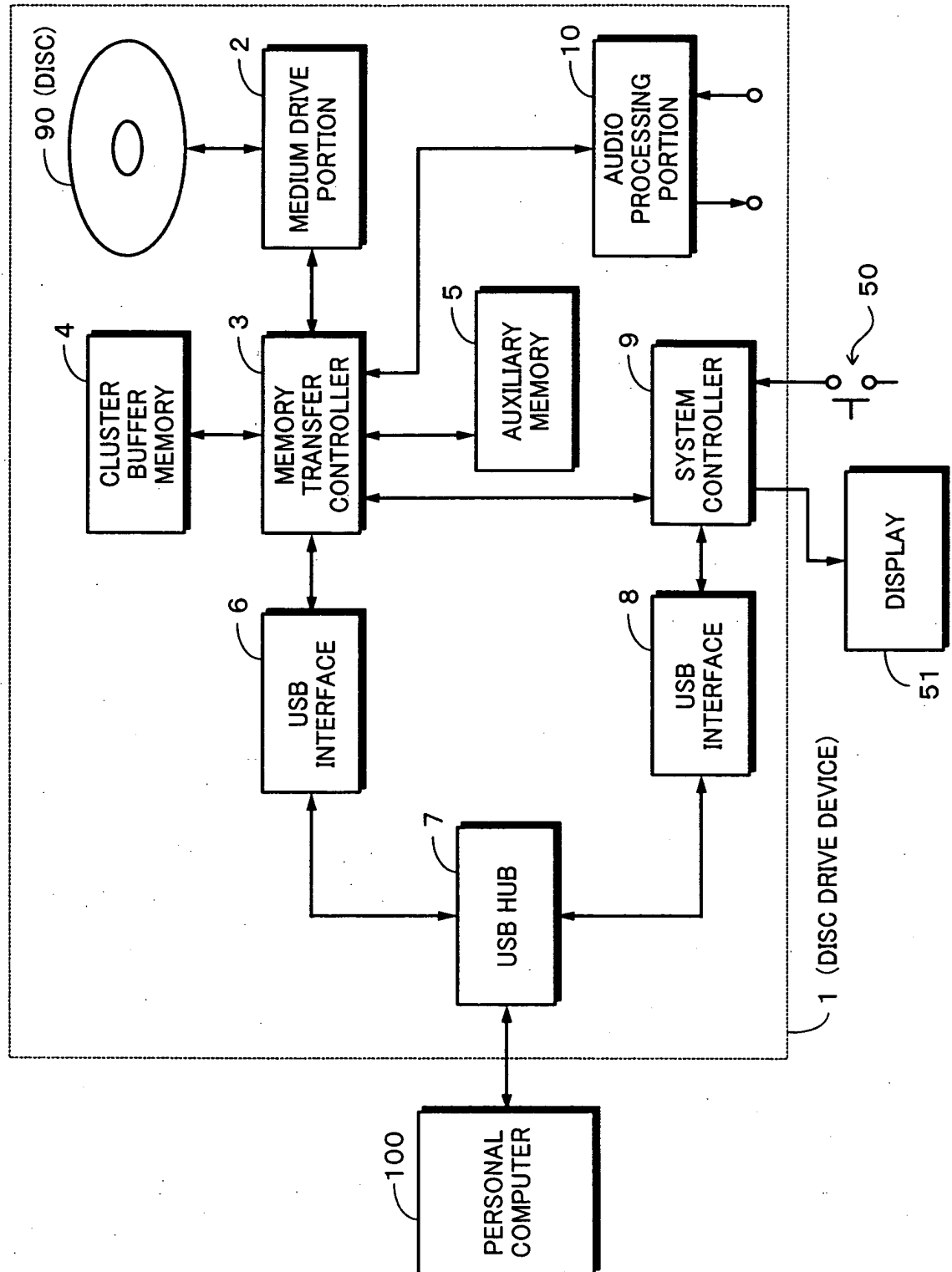
**Fig. 16**



**CONTROL DATA**

ADIP SECTOR 0	LOW ORDER BIT PORTION OF ADIP CLUSTER
ADIP SECTOR 1	DISC TYPE, PAGE NUMBER
ADIP SECTOR 2	LEAD-OUT CLUSTER NUMBER (H)
ADIP SECTOR 3	LEAD-OUT CLUSTER NUMBER (M)
ADIP SECTOR 4	LEAD-OUT CLUSTER NUMBER (L)
ADIP SECTOR 5	MAGNETIC PHASE, INTENSITY
ADIP SECTOR 6	READ POWER, TEMPERATURE COEFFICIENT
ADIP SECTOR 7	OPTIMUM READ POWER
ADIP SECTOR 8	LOW ORDER BIT PORTION OF ADIP CLUSTER
ADIP SECTOR 9	WRITE POWER, TEMPERATURE COEFFICIENT
ADIP SECTOR 10	OPTIMUM WRITE POWER
ADIP SECTORS 10 TO 15	RESERVED

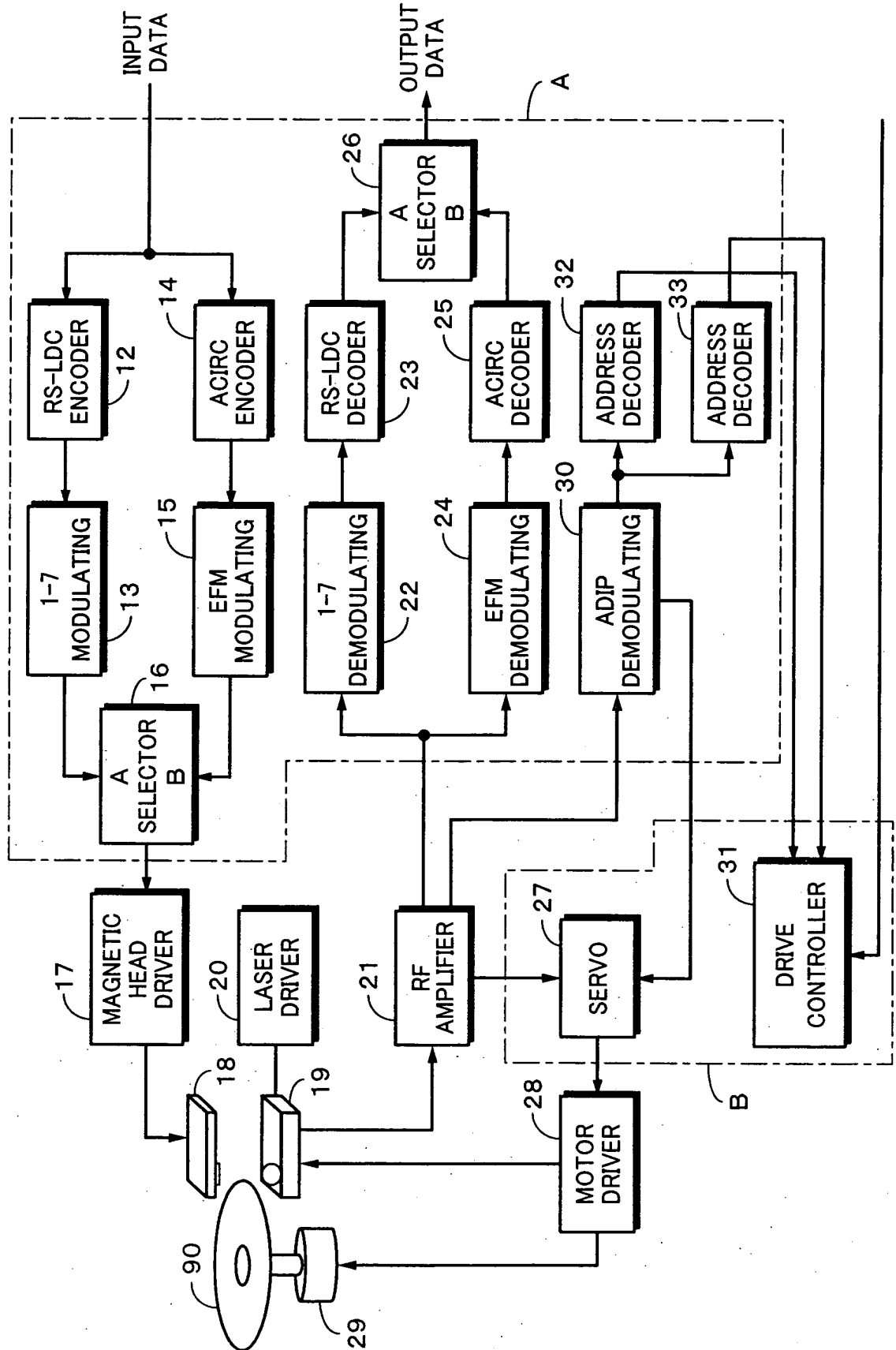
Fig. 17





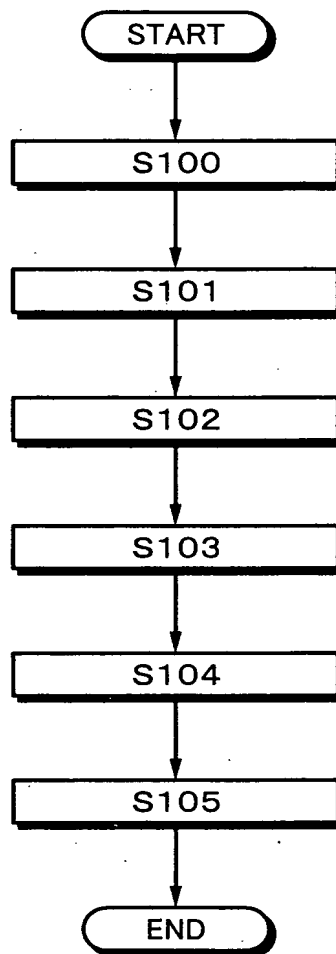
10/519832

Fig. 18

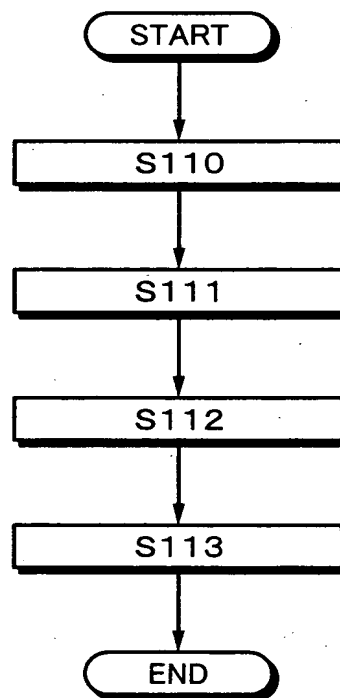


10/519833

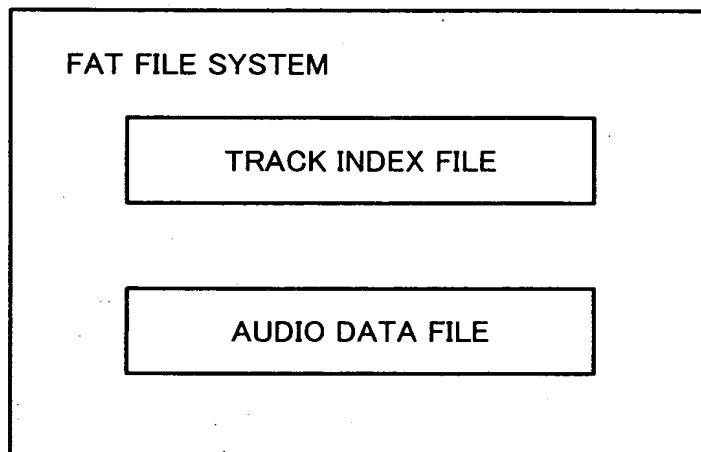
**Fig. 19**



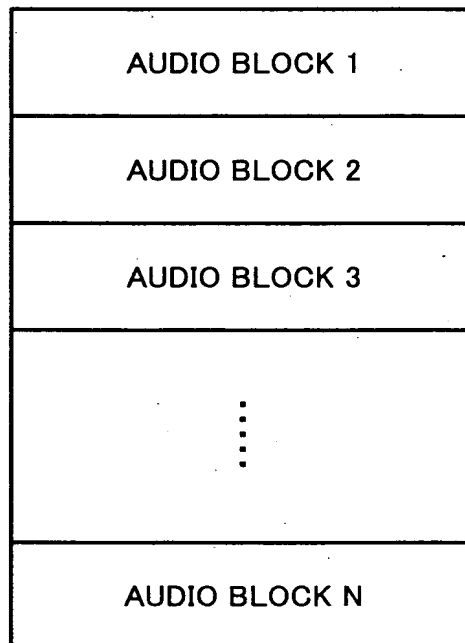
***Fig. 20***



## ***Fig. 21***



**Fig. 22**



## ***Fig. 23***

PLAY ORDER TABLE
PROGRAMMED PLAY ORDER TABLE
GROUP INFORMATION TABLE
TRACK INFORMATION TABLE
PART INFORMATION TABLE
NAME TABLE

**Fig. 24**

TINF1
TINF2
TINF3
⋮
TINF <sub>n</sub>

**Fig. 25**

PINF1
PINF2
PINF3
⋮
PINF <sub>n</sub>



**Fig. 26A**

GROUP DESCRIPTOR 0
GROUP DESCRIPTOR 1
GROUP DESCRIPTOR 2
⋮
GROUP DESCRIPTOR N

**Fig. 26B**

START TRACK NUMBER	END TRACK NUMBER	GROUP NAME	FLAG
-----------------------	---------------------	---------------	------

**Fig. 27A**

TRACK DESCRIPTOR 0
TRACK DESCRIPTOR 1
TRACK DESCRIPTOR 2
⋮
TRACK DESCRIPTOR N

**Fig. 27B**

ENCODING SYSTEM		
COPYRIGHT MANAGEMENT INFORMATION	KEY INFORMATION	
PART NUMBER	ARTIST NAME	TITLE
ORIGINAL SONG ORDER	RECORD DURATION	

**Fig. 28A**

PART DESCRIPTOR 0
PART DESCRIPTOR 1
PART DESCRIPTOR 2
⋮
PART DESCRIPTOR N

**Fig. 28B**

PART START ADDRESS	PART END ADDRESS	LINK
-----------------------	---------------------	------

**Fig. 29A**

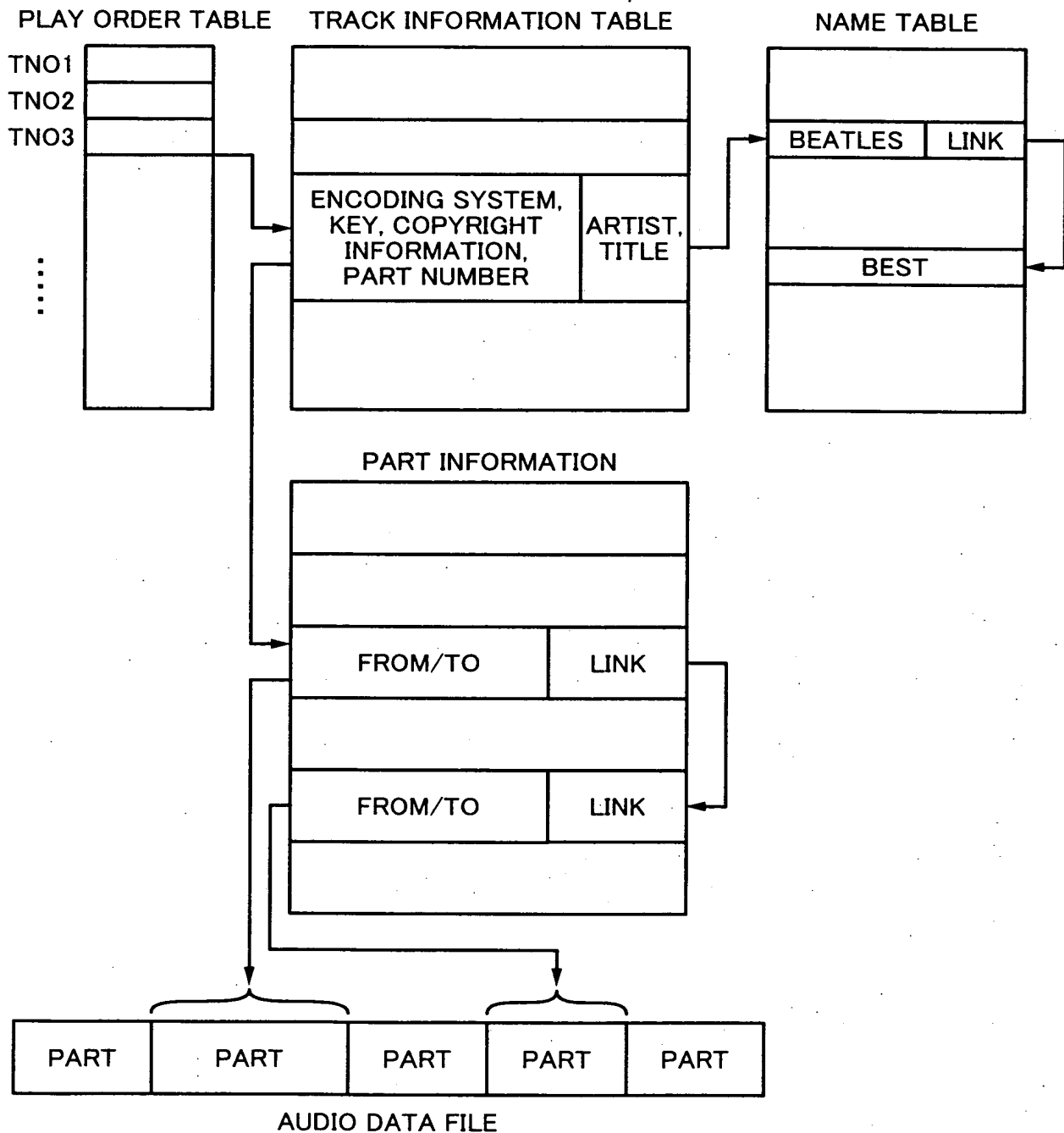
NAME SLOT 0
NAME SLOT 1
NAME SLOT 2
⋮
NAME SLOT N

**Fig. 29B**

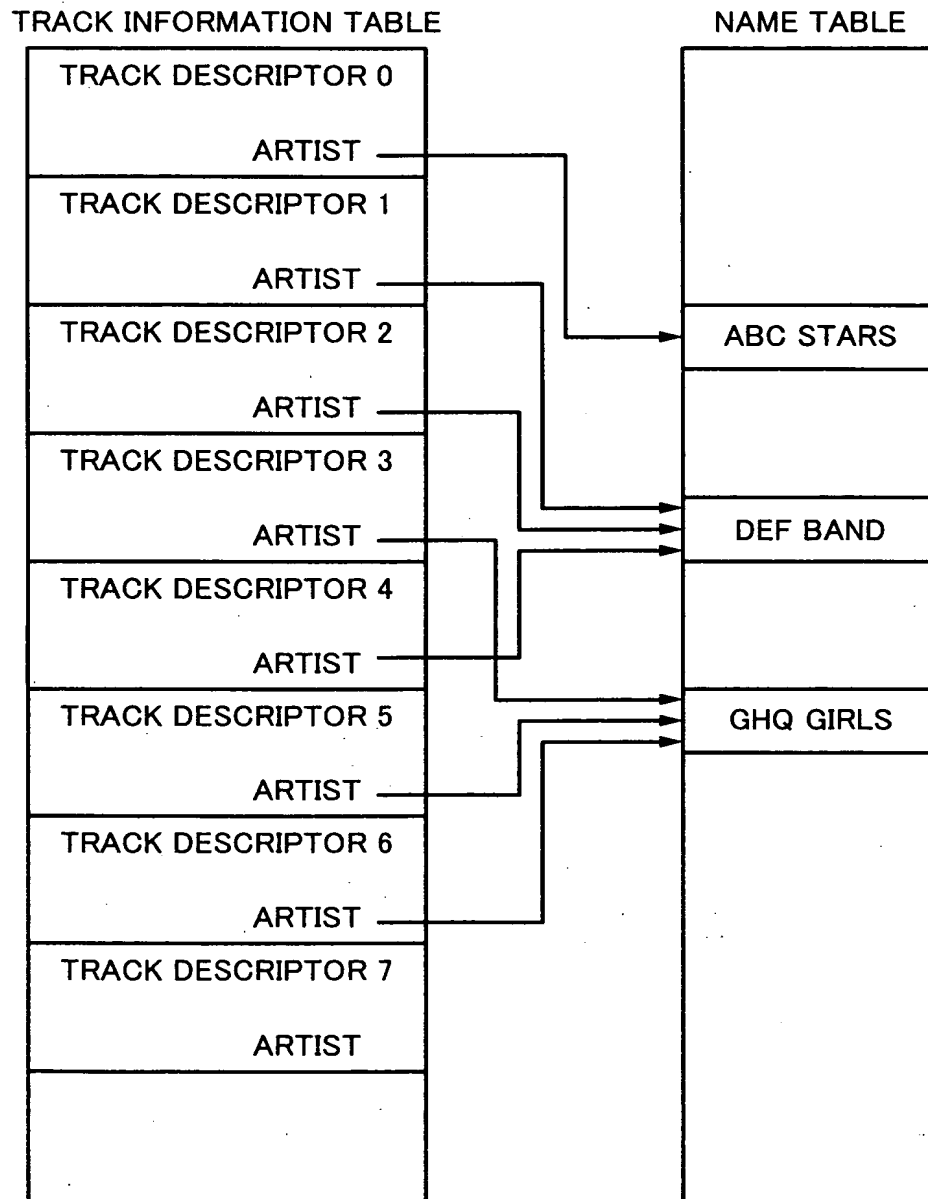
NAME DATA	NAME TYPE	LINK
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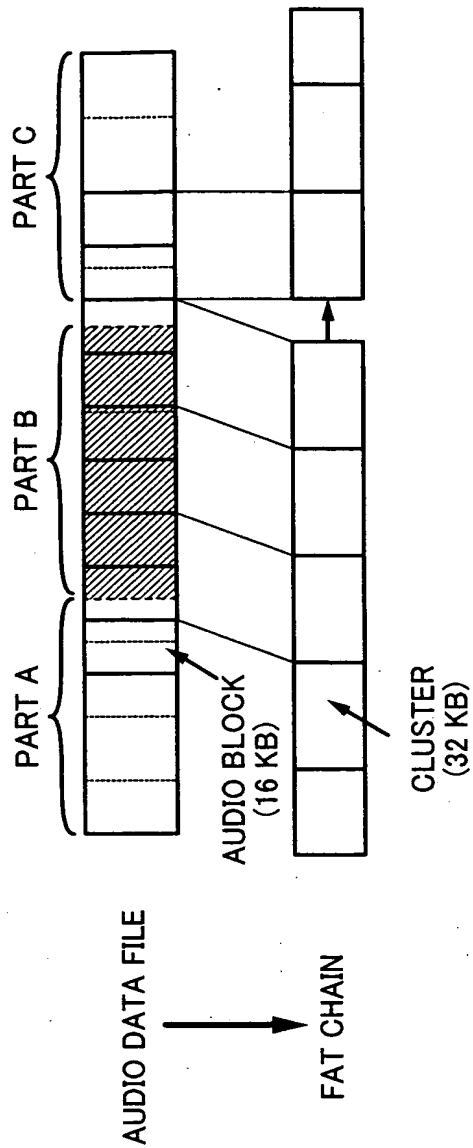
10/519833

**Fig. 30**

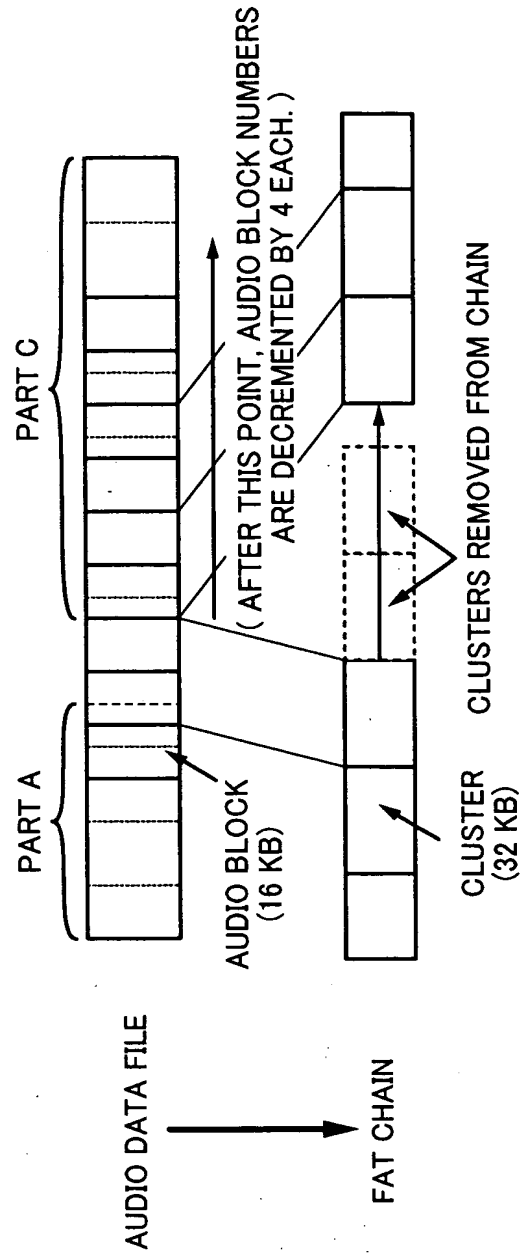


**Fig. 31**



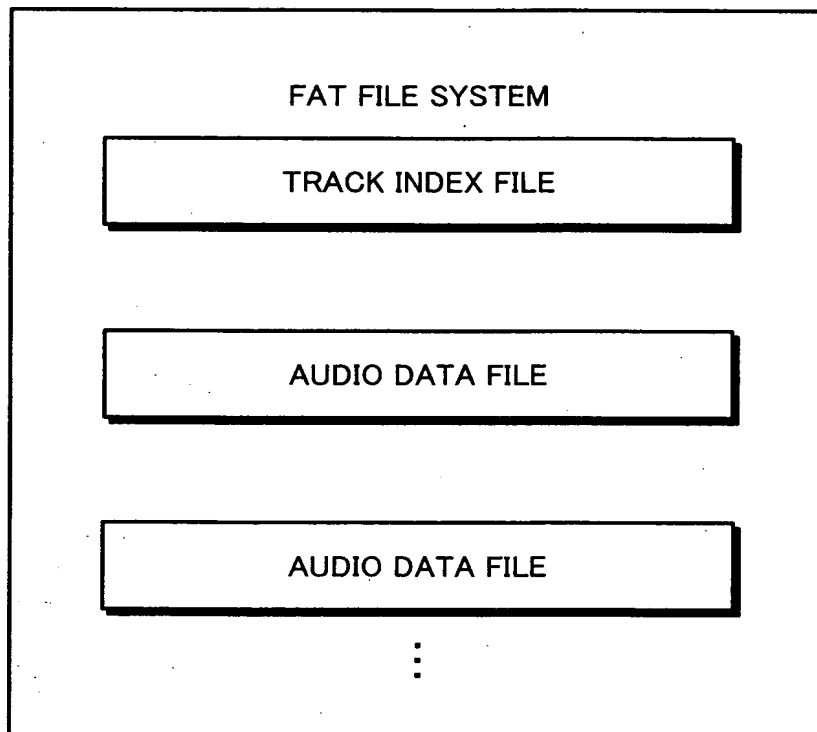


**Fig. 32A**



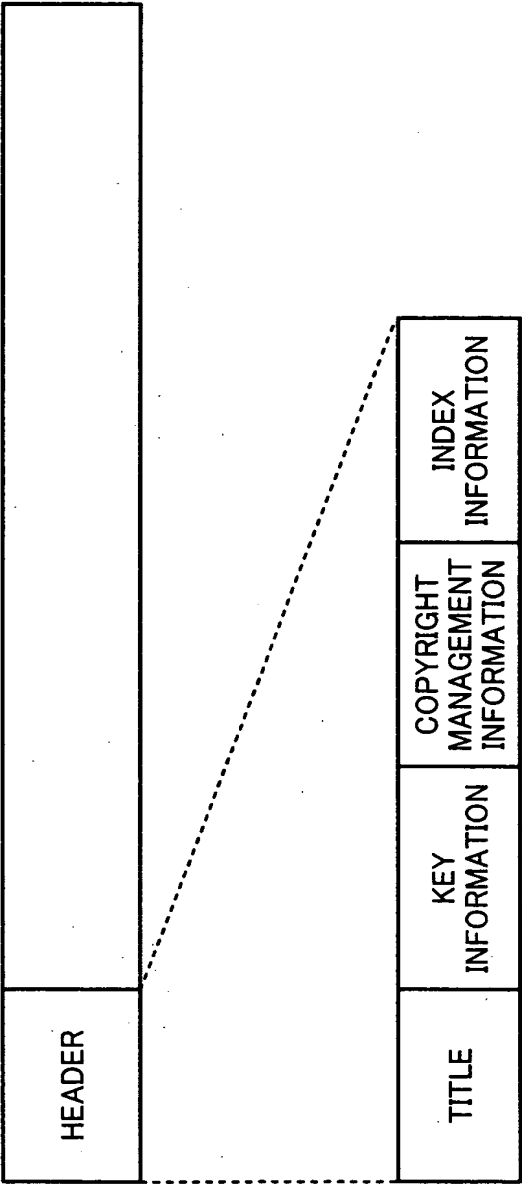
**Fig. 32B**

## ***Fig. 33***





**Fig. 34**



## ***Fig. 35***

PLAY ORDER TABLE
PROGRAMMED PLAY ORDER TABLE
GROUP INFORMATION TABLE
TRACK INFORMATION TABLE
NAME TABLE

**Fig. 36**

TINF0
TINF1
TINF2
⋮
TINF <sub>n</sub>

**Fig. 37**

PINF0
PINF1
PINF2
⋮
PINF <sub>n</sub>

**Fig. 38A**

GROUP DESCRIPTOR 0
GROUP DESCRIPTOR 1
GROUP DESCRIPTOR 2
⋮
GROUP DESCRIPTOR N

**Fig. 38B**

START TRACK NUMBER	END TRACK NUMBER	NAME POINTER	FLAG
-----------------------	---------------------	-----------------	------

**Fig. 39A**

TRACK DESCRIPTOR 0
TRACK DESCRIPTOR 1
TRACK DESCRIPTOR 2
TRACK DESCRIPTOR N

**Fig. 39B**

ENCODING SYSTEM			
AUDIO FILE	INDEX	ARTIST NAME	TITLE
ORIGINAL SONG ORDER		RECORD DURATION	

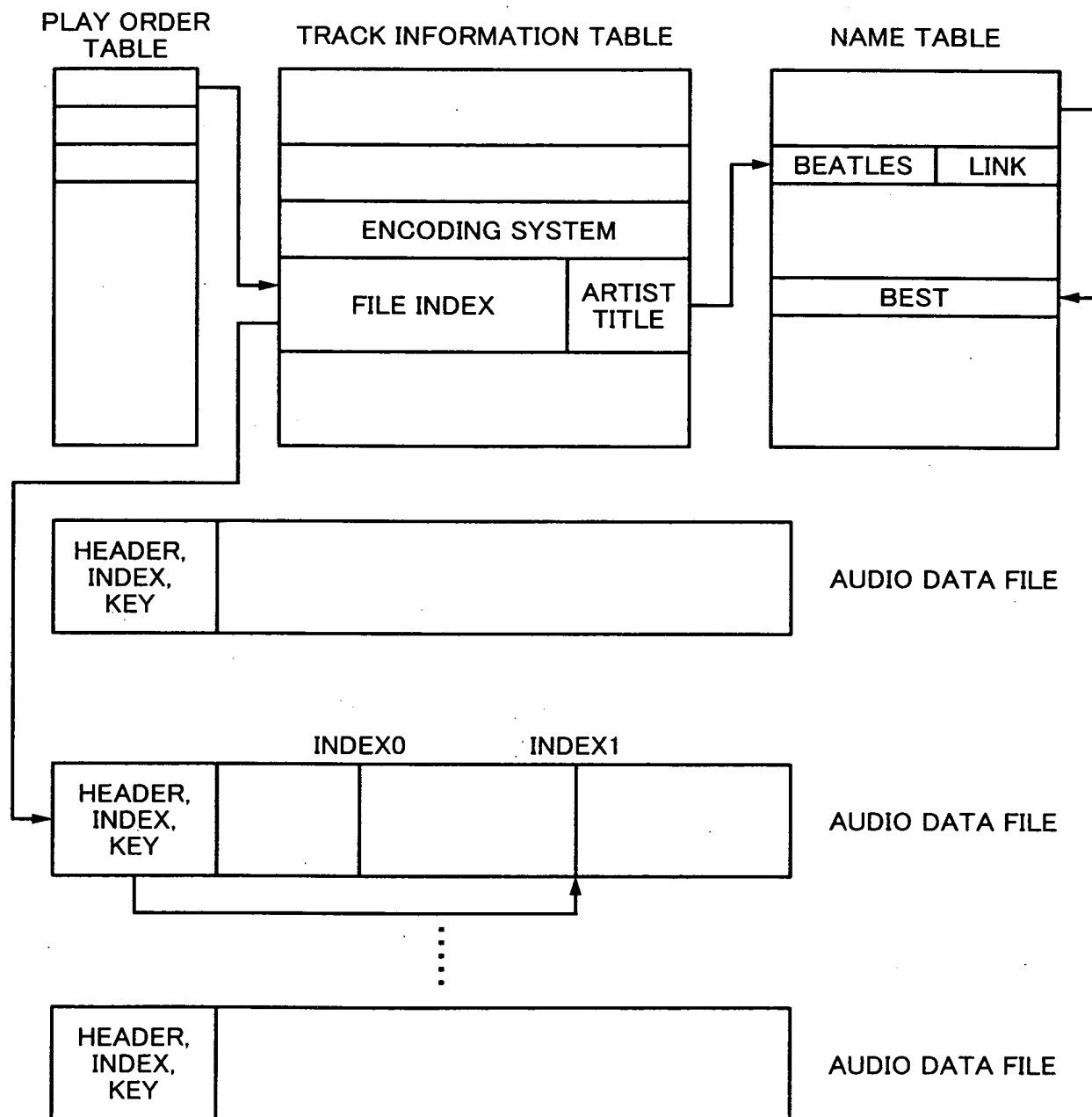
**Fig. 40A**

NAME SLOT 0
NAME SLOT 1
NAME SLOT 2
⋮
NAME SLOT N

**Fig. 40B**

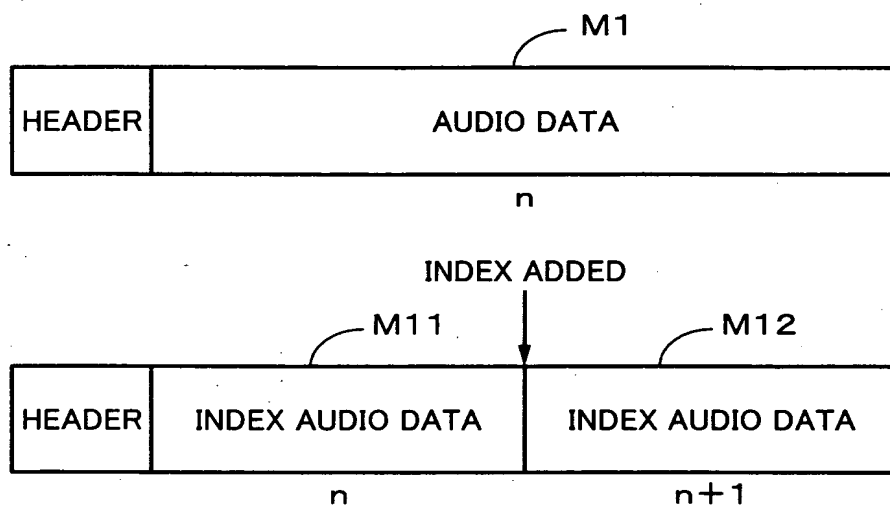
NAME DATA	NAME TYPE	LINK
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**Fig. 41**

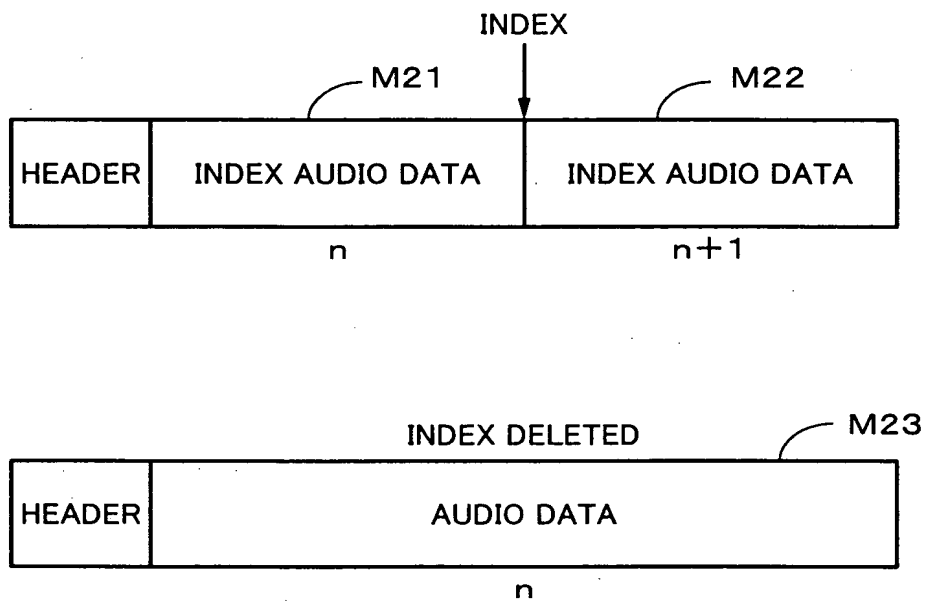




**Fig. 42**

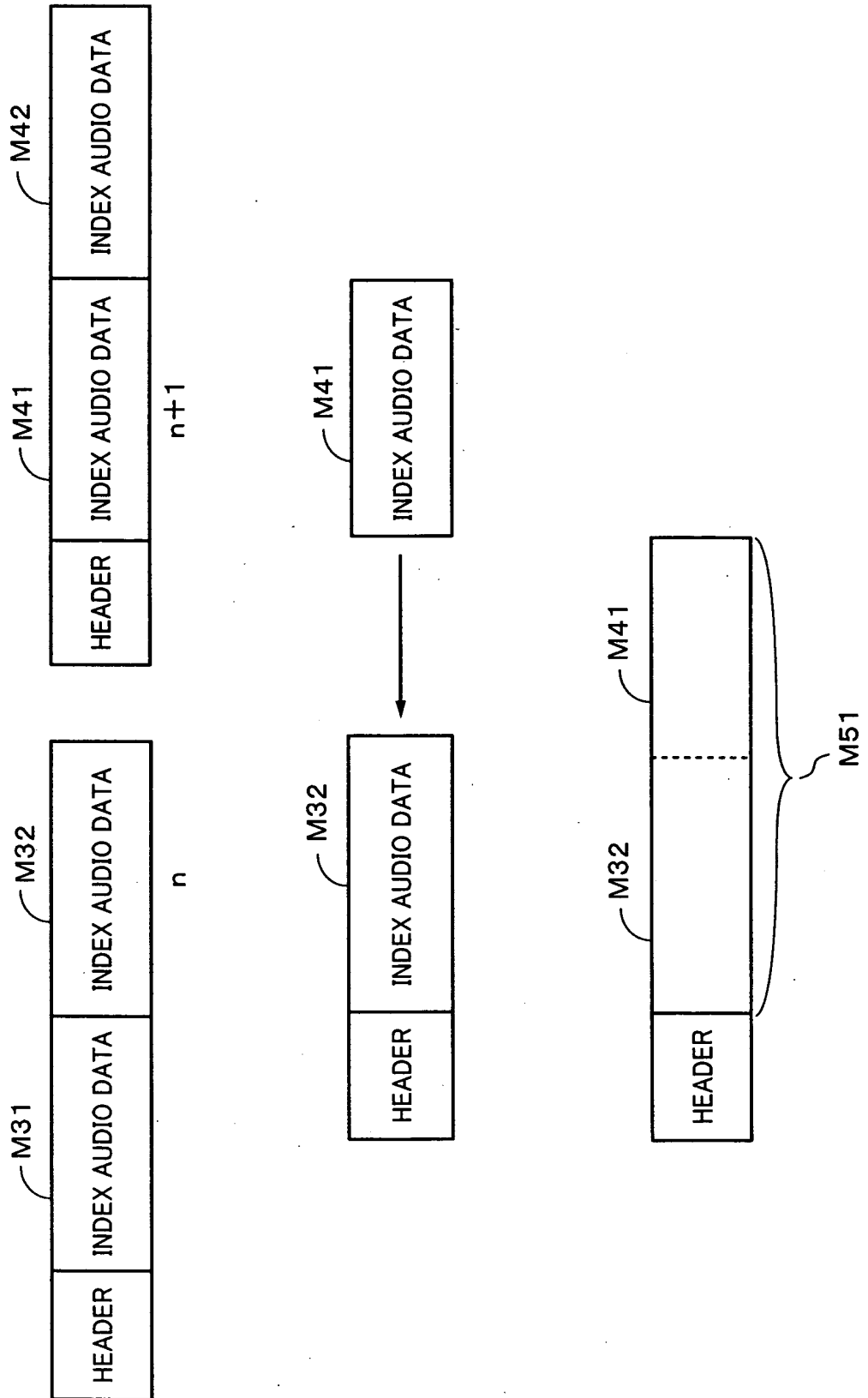


**Fig. 43**

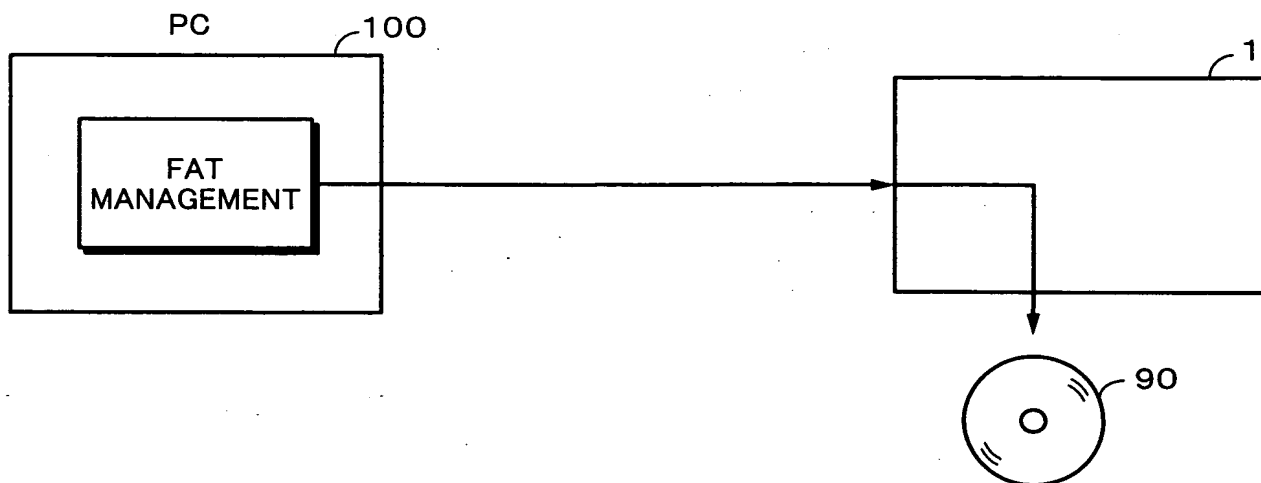


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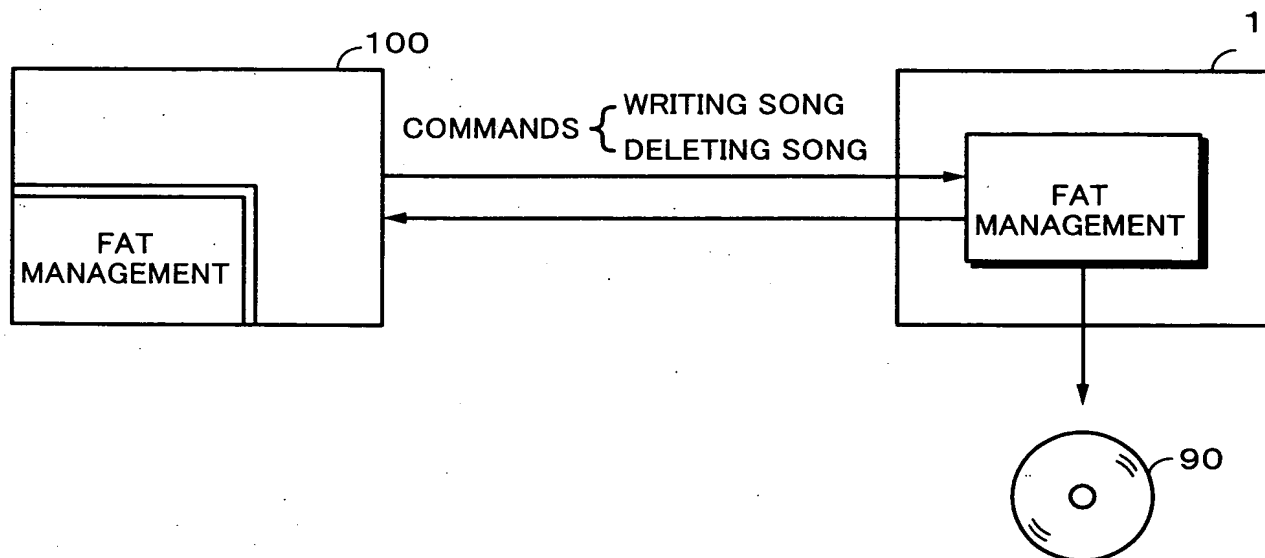
**Fig. 44**



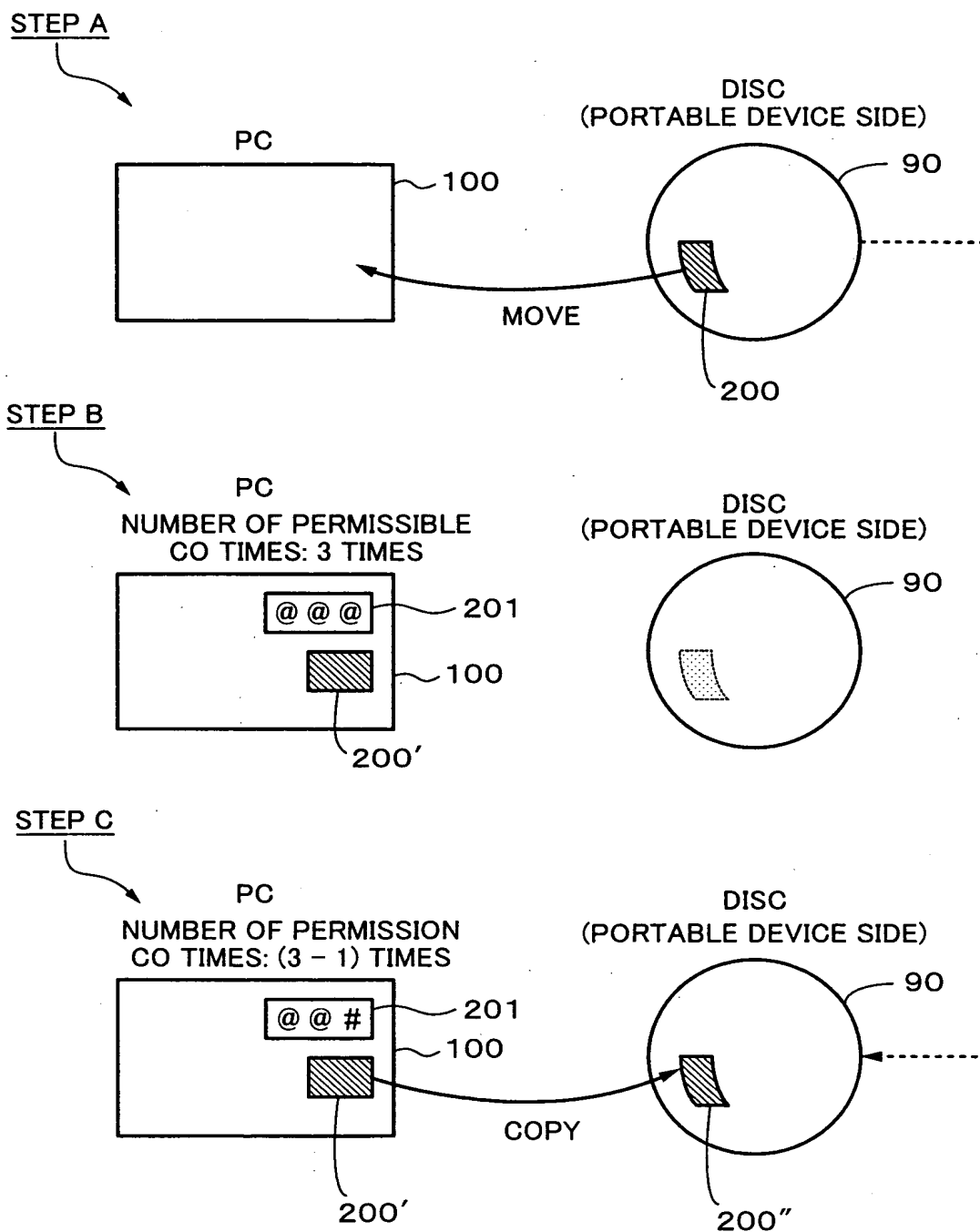
**Fig. 45A**



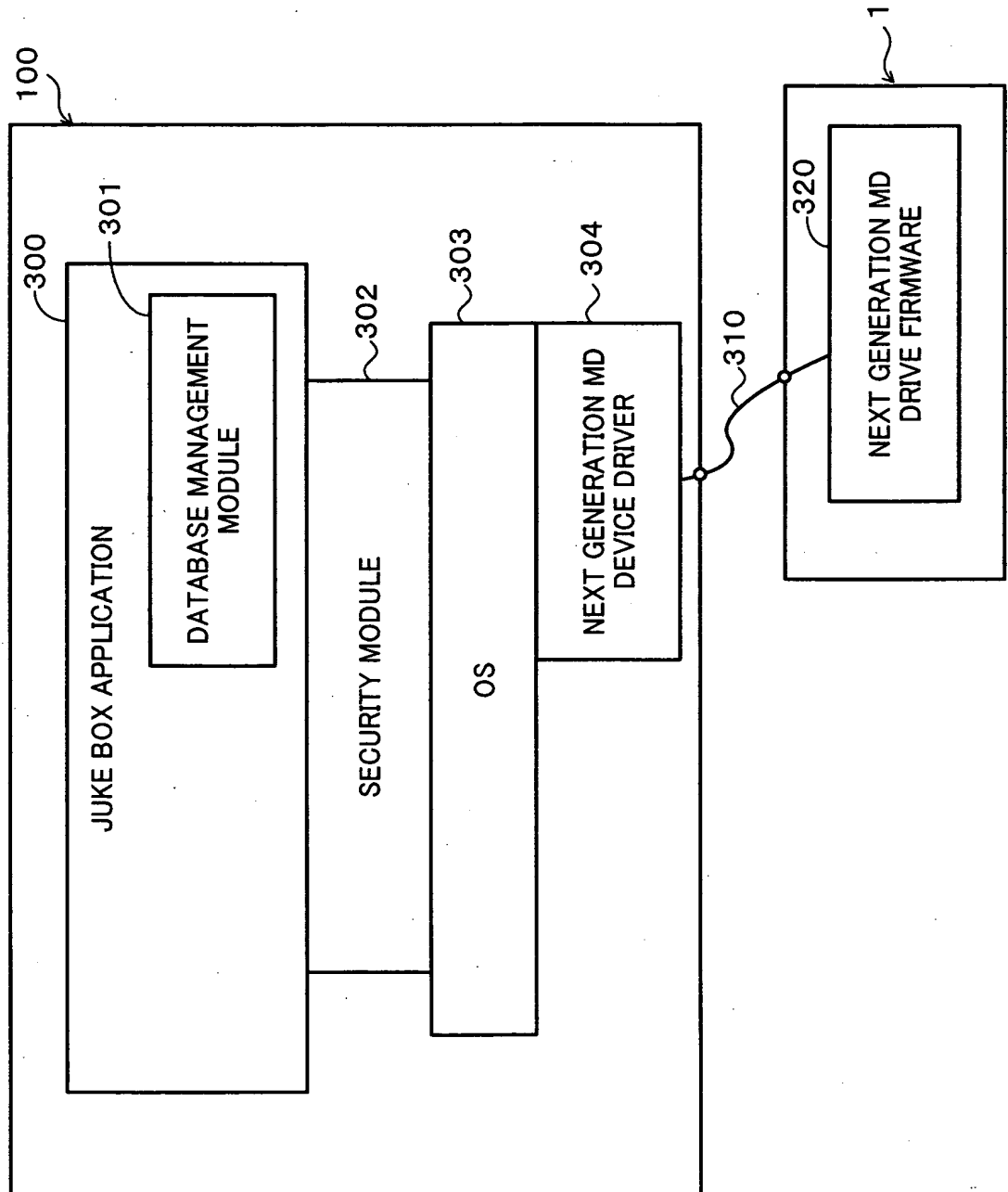
**Fig. 45B**



**Fig. 46**



**Fig. 47**



10/519853

Fig. 48A

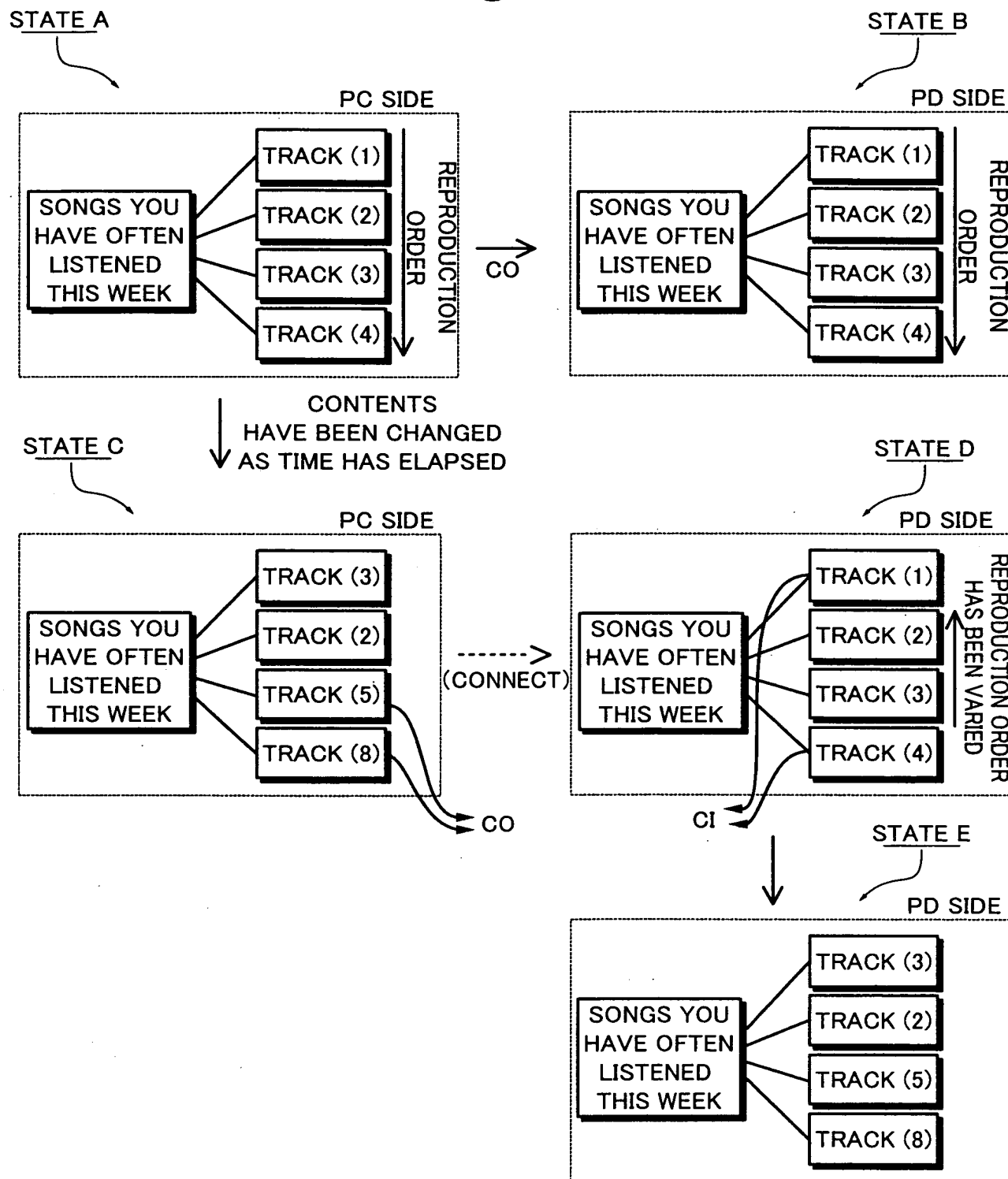
GROUP NAME	DISC ID	DISC CAPACITY	DYNAMIC FLAG	CHANGE FLAG
SONGS YOU HAVE OFTEN LISTENED THIS WEEK	CCCCC	GGGGG	1	1
AA BEST	DDDDD	HHHHH	0	0
NEW SONGS	EEEE	JJJJJ	1	0
BB SELECT	FFFFF	KKKKK	0	1

Fig. 48B

GROUP NAME	CONTENT ID	REPRODUCTION ORDER	NUMBER OF PERMISSIBLE CO TIMES	NUMBER OF REPRODUCTION TIMES
SONGS YOU HAVE OFTEN LISTENED THIS WEEK	LLLLLL	4	2	2
	NNNNN	2	2	6
	OPOPOP	1	2	11
	QQQQQQ	5	1	0
	RRRRRR	3	2	3

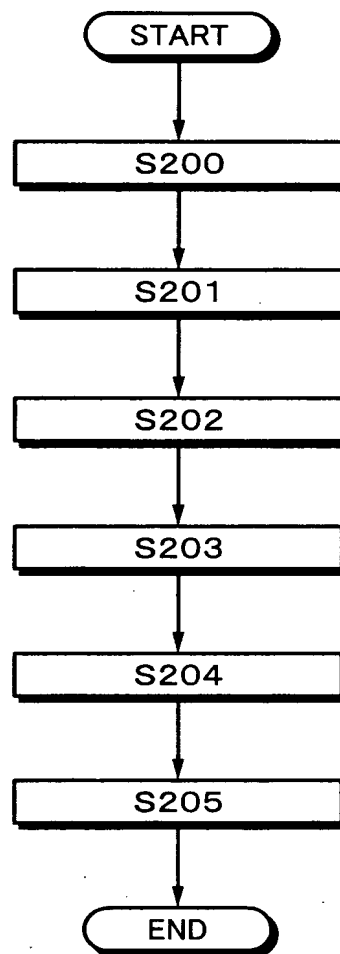
10/15/98 33

**Fig. 49**

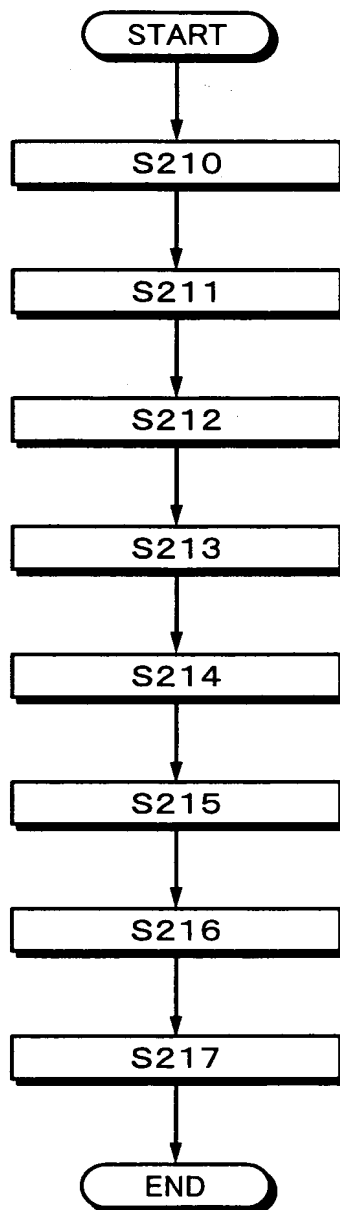




**Fig. 50**



**Fig. 51**



DESCRIPTION OF REFERENCE NUMERALS

1	DISC DRIVE DEVICE
2	MEDIUM DRIVE PORTION
3	MEMORY TRANSFER CONTROLLER
4	CLUSTER BUFFER MEMORY
5	AUXILIARY MEMORY
6, 8	USB INTERFACE
7	USB HUB
10	AUDIO PROCESSING PORTION
12	RS-LDC ENCODER
13	1-7 pp MODULATING PORTION
14	ACIRC ENCODER
15	EFM MODULATING PORTION
16	SELECTOR
17	MAGNETIC HEAD DRIVER
18	MAGNETIC HEAD
19	OPTICAL HEAD
22	1-7 DEMODULATING PORTION
23	RS-LDC DECODER
23	EFM MODULATING PORTION
24	ACIRC DECODER
26	SELECTOR
30	ADIP DEMODULATING PORTION
32, 33	ADDRESS DECODER
50	SWITCH

90 DISC

100 PERSONAL COMPUTER

300 JUKE BOX APPLICATION

301 DATABASE MANAGEMENT MODULE

302 SECURITY MODULE

S100 CHECK UID.

S101 RECORD UTOC.

S102 RECORD ALERT TRACK.

S103 RECORD DDT.

S104 RECORD UNIQUE ID.

S105 RECORD FAT AND SO FORTH.

S110 CHECK UID.

S111 RECORD DDT.

S112 UNIQUE ID

S113 RECORD FAT AND SO FORTH.

S200 CONNECT PC AND PD.

S201 USER SELECTS DYNAMIC GROUP TO BE CHECKED OUT.

S202 HAS DISC BEEN LOADED INTO PD ?

S203 RECORD DISC ID AND NAME OF DYNAMIC GROUP TO DB OF PC.

S204 PERFORM CHECK-OUT OPERATION.

S205 (THEREAFTER, WHEN DYNAMIC GROUP HAS CHANGED ON PC, SET VALUE  
OF CHANGE FLAG OF DB TO "1.")

S210 CONNECT PC AND PD.

S211 HAS DISC BEEN LOADED INTO PD ?

S212 HAS DISC ID OF DISC LOADED INTO PD BEEN RECORDED IN DB OF PC ?

10/519833

HAS DYNAMIC GROUP ALSO BEEN REGISTERED ?

S213 HAS VALUE OF CHANGE FLAG OF DYNAMIC GROUP BEEN SET TO "1" ?

S214 CHECK IN CONTENTS THAT EXIST ON ONLY PD SIDE.

S215 CHECK OUT CONTENTS THAT EXIST ON ONLY PC SIDE.

S216 CHANGE REPRODUCTION ORDER OF CONTENTS ON PD SIDE IN ACCORDANCE  
WITH REPRODUCTION ORDER OF CONTENTS ON PC SIDE.

S217 SET VALUE OF CHANGE FLAG OF DYNAMIC GROUP TO "0."